

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/336,091A
Source: IFW/6
Date Processed by STIC: 11/5/04

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/336,091A

DATE: 11/05/2004

TIME: 12:04:46

Input Set : A:\L0461.70063US00seq.txt

Output Set: N:\CRF4\11052004\I336091A.raw

3 <110> APPLICANT: Van Snick, Jacques
 4 Lethe, Bernard
 5 Chaux, Pascal
 6 Boon-Falleur, Thierry
 7 van der Bruggen, Pierre
 9 <120> TITLE OF INVENTION: MAGE-A1 PEPTIDES PRESENTED BY HLA CLASS
 10 II MOLECULES
 12 <130> FILE REFERENCE: L0461/7063
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/336,091A
 C--> 14 <141> CURRENT FILING DATE: 1999-06-18
 14 <160> NUMBER OF SEQ ID NOS: 73
 16 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 1624
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Homo sapiens
 23 <400> SEQUENCE: 1
 24 gtttcaggg gacaggccaa cccagaggac aggattccct ggaggccaca gaggagcacc 60
 26 aaggagaaga tctgcctgtg ggtcttcatt gcccgactcc tgcccacact cctgcctgct 120
 28 gcccgtacga gagtcatcat gtctctttag cagaggagtc tgcactgcaa gcctgaggaa 180
 30 gcccgttggg cccaaacaaga ggccctgggc ctgggtgttg tgcaggctgc cacctcctcc 240
 32 tcctctccctc tggccttggg caccctggag gaggtgccc ctgctgggtc aacagatcct 300
 34 ccccgagtc ctcaggggagc ctccgcctt cccactacca tcaacttcac tcgacagagg 360
 36 caacccagtg agggttccag cagccgtgaa gaggaggggc caagcaccc ttgtatcctg 420
 38 gagtccttgt tccgagcagt aatcaactaag aaggtggctg atttggttgg ttttctgctc 480
 40 ctc当地atc gagccaggga gccagtcaca aaggcagaaa tgctggagag tgc当地atc 540
 42 aattacaagc actgtttcc tgagatctc ggcaaaagcct ctgagtcctt gcagctggtc 600
 44 tttggcatcg acgtgaagga agcagacccc accggccact cctatgtcct tgc当地ac 660
 46 ctaggtctct cctatgtatgg cctgctgggt gataatcaga tcatgccc当地 gacaggctc 720
 48 ctgataattg tcctggcata gattgcaatg gagggcggcc atgctcctgaa ggaggaaatc 780
 50 tggaggagc tgagtgtat ggaggtgtat gatgggaggaa agcacagtgc ctatggggag 840
 52 cccaggaagc tgctcacccaa agatttggtg caggaaaagt acctggagta cccggcagggtg 900
 54 ccggacagtg atcccgacg ctatgagttc ctgtgggtc caaggccct cgc当地aaacc 960
 56 agctatgtga aagtcccttga gtatgtatc aaggtcagtg caagagttcg ctttttctc 1020
 58 ccatccctgc gtgaaggcagc tttgagagag gaggaagagg gaggctgagc atgagttgca 1080
 60 gccaaggccaa gtggggggg gactggccca gtgcacccctc cagggccggc tccagcagct 1140
 62 tccctgcct cgtgtgacat gaggcccatt cttcactctg aagagagcgg tcagtttct 1200
 63 cagtagtagg tttctgttct attgggtgac ttggagattt atctttgttc tcttttggaa 1260
 65 ttgttcaaattt gttttttttt aagggatggt tgaatgaact tcagcatccaa agtttatgaa 1320
 67 tgacagcagt cacacagtcc tgggtatata gtttaagggt aagagtcttgc tggttattc 1380
 69 agattggaa atccattcta ttttgtgaat tggataata acagcagtgg aataagtact 1440
 71 tagaaatgtg aaaaatgagc agtaaaatag atgagataaa gaactaaaga aattaagaga 1500
 73 tagtcaattc ttgccttata ctcagtcata ttctgtaaaa ttttaaaga tatatgcata 1560

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75 cctggatttc cttggcttct ttgagaatgt aagagaaaatt aaatctgaat aaagaattct 1620
 77 tcct 1624
 79 <210> SEQ ID NO: 2
 80 <211> LENGTH: 309
 81 <212> TYPE: PRT
 82 <213> ORGANISM: Homo sapiens
 84 <400> SEQUENCE: 2
 85 Met Ser Leu Glu Gln Arg Ser Leu His Cys Lys Pro Glu Glu Ala Leu
 86 1 5 10 15
 87 Glu Ala Gln Gln Glu Ala Leu Gly Leu Val Cys Val Gln Ala Ala Thr
 88 20 25 30
 89 Ser Ser Ser Pro Leu Val Leu Gly Thr Leu Glu Glu Val Pro Thr
 90 35 40 45
 91 Ala Gly Ser Thr Asp Pro Pro Gln Ser Pro Gln Gly Ala Ser Ala Phe
 92 50 55 60
 93 Pro Thr Thr Ile Asn Phe Thr Arg Gln Arg Gln Pro Ser Glu Gly Ser
 94 65 70 75 80
 95 Ser Ser Arg Glu Glu Glu Gly Pro Ser Thr Ser Cys Ile Leu Glu Ser
 96 85 90 95
 97 Leu Phe Arg Ala Val Ile Thr Lys Lys Val Ala Asp Leu Val Gly Phe
 98 100 105 110
 99 Leu Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met
 100 115 120 125
 101 Leu Glu Ser Val Ile Lys Asn Tyr Lys His Cys Phe Pro Glu Ile Phe
 102 130 135 140
 103 Gly Lys Ala Ser Glu Ser Leu Gln Leu Val Phe Gly Ile Asp Val Lys
 104 145 150 155 160
 105 Glu Ala Asp Pro Thr Gly His Ser Tyr Val Leu Val Thr Cys Leu Gly
 106 165 170 175
 107 Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Thr
 108 180 185 190
 109 Gly Phe Leu Ile Ile Val Leu Val Met Ile Ala Met Glu Gly Gly His
 110 195 200 205
 111 Ala Pro Glu Glu Glu Ile Trp Glu Glu Leu Ser Val Met Glu Val Tyr
 112 210 215 220
 113 Asp Gly Arg Glu His Ser Ala Tyr Gly Glu Pro Arg Lys Leu Leu Thr
 114 225 230 235 240
 115 Gln Asp Leu Val Gln Glu Lys Tyr Leu Glu Tyr Arg Gln Val Pro Asp
 116 245 250 255
 117 Ser Asp Pro Ala Arg Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu Ala
 118 260 265 270
 119 Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala
 120 275 280 285
 121 Arg Val Arg Phe Phe Pro Ser Leu Arg Glu Ala Ala Leu Arg Glu
 122 290 295 300
 123 Glu Glu Glu Gly Val
 124 305
 125 <210> SEQ ID NO: 3
 126 <211> LENGTH: 16

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Input Set : A:\L0461.70063US00seq.txt

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127 <212> TYPE: PRT
128 <213> ORGANISM: Homo sapiens
130 <400> SEQUENCE: 3
131 Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala Arg Val Arg Phe
132 1 5 10 15
134 <210> SEQ ID NO: 4
135 <211> LENGTH: 16
136 <212> TYPE: PRT
137 <213> ORGANISM: Homo sapiens
139 <400> SEQUENCE: 4
140 Glu Tyr Val Ile Lys Val Ser Ala Arg Val Arg Phe Phe Phe Pro Ser
141 1 5 10 15
143 <210> SEQ ID NO: 5
144 <211> LENGTH: 12
145 <212> TYPE: PRT
146 <213> ORGANISM: Homo sapiens
148 <400> SEQUENCE: 5
149 Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr Val Ile
150 1 5 10
152 <210> SEQ ID NO: 6
153 <211> LENGTH: 12
154 <212> TYPE: PRT
155 <213> ORGANISM: Homo sapiens
157 <400> SEQUENCE: 6
158 Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala
159 1 5 10
161 <210> SEQ ID NO: 7
162 <211> LENGTH: 12
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens
166 <400> SEQUENCE: 7
167 Glu Tyr Val Ile Lys Val Ser Ala Arg Val Arg Phe
168 1 5 10
170 <210> SEQ ID NO: 8
171 <211> LENGTH: 12
172 <212> TYPE: PRT
173 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 8
176 Lys Val Ser Ala Arg Val Arg Phe Phe Phe Pro Ser
177 1 5 10
179 <210> SEQ ID NO: 9
180 <211> LENGTH: 12
181 <212> TYPE: PRT
182 <213> ORGANISM: Homo sapiens
184 <400> SEQUENCE: 9
185 Arg Val Arg Phe Phe Pro Ser Leu Arg Glu Ala
186 1 5 10
187 <210> SEQ ID NO: 10
188 <211> LENGTH: 12

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Input Set : A:\L0461.70063US00seq.txt
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189 <212> TYPE: PRT
 190 <213> ORGANISM: Homo sapiens
 192 <400> SEQUENCE: 10
 193 Phe Phe Pro Ser Leu Arg Glu Ala Ala Leu Arg Glu
 194 1 5 10
 196 <210> SEQ ID NO: 11
 197 <211> LENGTH: 13
 198 <212> TYPE: PRT
 199 <213> ORGANISM: Homo sapiens
 201 <400> SEQUENCE: 11
 202 Leu Arg Glu Ala Ala Leu Arg Glu Glu Glu Gly Val
 203 1 5 10
 205 <210> SEQ ID NO: 12
 206 <211> LENGTH: 36
 207 <212> TYPE: DNA
 208 <213> ORGANISM: Homo sapiens
 210 <400> SEQUENCE: 12
 211 gagtatgtga tcaaggcag tgcaagagtt cgcttt 36
 213 <210> SEQ ID NO: 13
 214 <211> LENGTH: 16
 215 <212> TYPE: PRT
 216 <213> ORGANISM: Homo sapiens
 218 <400> SEQUENCE: 13
 219 Tyr Val Lys Val Leu Glu His Val Val Arg Val Asn Ala Arg Val Arg
 220 1 5 10 15
 222 <210> SEQ ID NO: 14
 223 <211> LENGTH: 16
 224 <212> TYPE: PRT
 225 <213> ORGANISM: Homo sapiens
 W--> 226 <400> SEQUENCE: 14
 227 Leu Glu His Val Val Arg Val Asn Ala Arg Val Arg Ile Ala Tyr Pro
 228 1 5 10 15
 230 <210> SEQ ID NO: 15
 231 <211> LENGTH: 9
 232 <212> TYPE: PRT
 233 <213> ORGANISM: Homo sapiens
 235 <400> SEQUENCE: 15
 236 Glu Ala Asp Pro Thr Gly His Ser Tyr
 237 1 5
 239 <210> SEQ ID NO: 16
 240 <211> LENGTH: 9
 241 <212> TYPE: PRT
 242 <213> ORGANISM: Homo sapiens
 244 <400> SEQUENCE: 16
 245 Ser Leu Phe Arg Ala Val Ile Thr Lys
 246 1 5
 249 <210> SEQ ID NO: 17
 250 <211> LENGTH: 9
 251 <212> TYPE: PRT

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Input Set : A:\L0461.70063US00seq.txt
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252 <213> ORGANISM: Homo sapiens
254 <400> SEQUENCE: 17
255 Asn Tyr Lys His Cys Phe Pro Glu Ile
256 1 5
258 <210> SEQ ID NO: 18
259 <211> LENGTH: 10
260 <212> TYPE: PRT
261 <213> ORGANISM: Homo sapiens
263 <400> SEQUENCE: 18
264 Glu Val Tyr Asp Gly Arg Glu His Ser Ala
265 1 5 10
267 <210> SEQ ID NO: 19
268 <211> LENGTH: 10
269 <212> TYPE: PRT
270 <213> ORGANISM: Homo sapiens
272 <400> SEQUENCE: 19
273 Arg Glu Pro Val Thr Lys Ala Glu Met Leu
274 1 5 10
276 <210> SEQ ID NO: 20
277 <211> LENGTH: 9
278 <212> TYPE: PRT
279 <213> ORGANISM: Homo sapiens
281 <400> SEQUENCE: 20
282 Asp Pro Ala Arg Tyr Glu Phe Leu Trp
283 1 5
284 <210> SEQ ID NO: 21
285 <211> LENGTH: 9
286 <212> TYPE: PRT
287 <213> ORGANISM: Homo sapiens
289 <400> SEQUENCE: 21
290 Ser Ala Phe Pro Thr Thr Ile Asn Phe
291 1 5
293 <210> SEQ ID NO: 22
294 <211> LENGTH: 9
295 <212> TYPE: PRT
296 <213> ORGANISM: Homo sapiens
298 <400> SEQUENCE: 22
299 Ser Ala Tyr Gly Glu Pro Arg Lys Leu
300 1 5
302 <210> SEQ ID NO: 23
303 <211> LENGTH: 14
304 <212> TYPE: PRT
305 <213> ORGANISM: Homo sapiens
307 <400> SEQUENCE: 23
308 Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu
309 1 5 10
311 <210> SEQ ID NO: 24
312 <211> LENGTH: 10
313 <212> TYPE: PRT

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/336,091A

DATE: 11/05/2004

TIME: 12:04:47

Input Set : A:\L0461.70063US00seq.txt
Output Set: N:\CRF4\11052004\I336091A.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:226 M:283 W: Missing Blank Line separator, <400> field identifier
L:559 M:283 W: Missing Blank Line separator, <400> field identifier